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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/053,516	01/16/2002	Xianqiang Li	26757-710	1568
21971 75	90 03/20/2003			
	NSINI GOODRICH & I	EXAMINER		
650 PAGE MILL ROAD PALO ALTO, CA 943041050			CHAKRABARTI, ARUN K	
			ART UNIT	PAPER NUMBER
			1634	
			DATE MAILED: 03/20/2003	1
				7

Please find below and/or attached an Office communication concerning this application or proceeding.

# Office Action Summary

Application No. 10/053,516 Applicant(s)

Li

Examiner

Arun Chakrabarti

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The MAILING DATE of this com	munication appears on the cover s	heet with the correspondence address				
Period for Reply						
A SHORTENED STATUTORY PERIOD F THE MAILING DATE OF THIS COMMU	A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM					
- Extensions of time may be available under the provisions		may a reply be timely filed after SIX (6) MONTHS from the				
mailing date of this communication.  - If the period for reply specified above is less than thirty						
If NO period for reply is specified above, the maximum s     Failure to reply within the set or extended period for rep		=				
- Any reply received by the Office later than three months earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) 🗓 Responsive to communication(s)	filed on <i>Mar 19, 2002</i>					
2a) This action is <b>FINAL</b> .	2b) 💢 This action is non-fina	al.				
3) Since this application is in conditional closed in accordance with the pre-		mal matters, prosecution as to the merits is 935 C.D. 11; 453 O.G. 213.				
Disposition of Claims						
4) 💢 Claim(s) <u>1-9</u>		is/are pending in the application.				
4a) Of the above, claim(s)		is/are withdrawn from consideration.				
5)		is/are allowed.				
6) 💢 Claim(s) <u>1-9</u>		is/are rejected.				
7)		is/are objected to.				
8) Claims	ar	re subject to restriction and/or election requirement.				
Application Papers						
9) $\square$ The specification is objected to b	y the Examiner.					
10) ☐ The drawing(s) filed on is/are a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that an	y objection to the drawing(s) be h	eld in abeyance. See 37 CFR 1.85(a).				
11) The proposed drawing correction	filed onis	s: a) $\square$ approved b) $\square$ disapproved by the Examiner.				
If approved, corrected drawings are required in reply to this Office action.						
12) $\square$ The oath or declaration is objected	ed to by the Examiner.					
Priority under 35 U.S.C. §§ 119 and 120	l					
13) Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) All b) Some* c) None of:						
1. Certified copies of the priority documents have been received.						
2.   Certified copies of the priori	2. Certified copies of the priority documents have been received in Application No					
application from the	International Bureau (PCT Rule					
*See the attached detailed Office act	·					
14) Acknowledgement is made of a c						
a) The translation of the foreign la						
15) Acknowledgement is made of a c	claim for domestic priority under	35 U.S.C. §§ 120 and/or 121.				
Attachment(s)						
1) X Notice of References Cited (PTO-892)	_	summary (PTO-413) Paper No(s).				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  5) Notice of Informal Patent Application (PTO-152)  3) Information Disclosure Statement(s) (PTO-1449) Paper No(s).  5 Other: Detailed Action						
3) X Information Disclosure Statement(s) (P10-1449) Pap	per No(s). $5$ 6) $\bigcirc$ Other: $De$	etailed Action				

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#### **DETAILED ACTION**

### Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-9 are rejected under 35 U.S.C. 102 (b) as being anticipated by O'Hare et al. (PCT International Publication Number WO 00/08182) (February 17, 2000).
- O'Hare et al. teaches a method for screening agents that affects protein degradation rates (Abstract), the method comprising:
- a) taking a library of cells expressing a fusion protein comprising a reporter protein and a protein encoded by a sequence from a cDNA library derived from a sample of cells, the sequence from the cDNA library varying within the cell library (Page 2, line 4 to page 3, line 24 and Figure 1);
- b) contacting the library of cells with a plurality of agents which may affect protein degradation rates (Page 4, lines 1-33);
- c) for each agent, selecting cells in the library which express short-lived proteins based on whether the cells have different reporter signal intensities than other cells in the library, the

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difference being indicative of the selected cells expressing shorter lived fusion proteins than the fusion proteins expressed by the other cells in the library (Page 4, lines 1-33); and

d) characterizing the fusion proteins expressed by the selected cells for each agent (Page 4, lines 1-33 and Claim 7 and Figure 2).

O'Hare et al. teaches a method, wherein the method further comprises comparing which fusion proteins are expressed by the selected cells for each agent (Page 4, lines 1-33).

O'Hare et al. inherently teaches a method for monitoring effects different growth conditions have on expression of short-lived proteins (Abstract), the method comprising:

- a) exposing samples of cells to different growth conditions (Page 2, line 4 to page 3, line 24 and Figure 1);
- b) forming cDNA libraries from the sample of cells after exposure to the different growth conditions (Page 5, line 26 to page 12, line 23);
- c) forming a library of cells for each cDNA library, the cells in the library expressing a fusion protein comprising a reporter protein and a protein encoded by a sequence from a cDNA library derived from a sample of cells, the sequence from the cDNA library varying within the cell library (Page 5, line 26 to page 12, line 23);
- d) for each library of cells, identifying cells within the library that express fusion proteins that are degraded in vivo more rapidly than other fusion proteins (Page 5, line 26 to page 12, line 23), and

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e) characterizing fusion proteins expressed by the identified cells (Page 2, line 4 to page 3, line 24); and

f) comparing which fusion proteins are characterized for each library of cells, differences in the characterized fusion proteins indicating differences in the short-lived proteins expressed by when the cells are exposed to the different agents (Page 2, line 4 to page 3, line 24 and Figure 1).

O'Hare et al. teaches a method, wherein exposing the samples of cells to different conditions comprises exposing the cells to different agents (Page 2, line 4 to page 3, line 24 and Claim 7).

O'Hare et al. teaches a method, wherein identifying cells within the library that express fusion proteins that are degraded in vivo more rapidly than other fusion proteins comprises:

- a) modifying a rate of protein expression or degradation by the cells (Page 5, line 26 to page 12, line 23 and Page 2, line 4 to page 3, line 24), and
- b) selecting a population of the cells based on whether the cells have different reporter signal intensities than other cells after the rate of protein expression or degradation has been modified, the difference being indicative of the selected population of cells expressing shorter lived fusion proteins than the fusion proteins expressed by the other cells in the library (Page 5, line 26 to page 12, line 23 and Page 2, line 4 to page 3, line 24).

O'Hare et al. teaches a method for partitioning the library of cells into populations of cells based on an intensity of a reporter signal from the fusion protein such that cells partitioned into a

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given population have a reporter signal within a desired range of reporter signal intensity (Page 5, line 26 to page 12, line 23).

O'Hare et al. teaches a method for screening for differences in short-lived proteins expressed by first and second cell samples (Page 7, line 15 to page 8, line 7), the method comprising:

- a) forming cDNA libraries from the sample of cells after exposure to the different growth conditions (Page 5, line 26 to page 12, line 23);
- c) forming a library of cells for each cDNA library, the cells in the library expressing a fusion protein comprising a reporter protein and a protein encoded by a sequence from a cDNA library derived from a sample of cells, the sequence from the cDNA library varying within the cell library (Page 5, line 26 to page 12, line 23);
- d) for each library of cells, identifying cells within the library that express fusion proteins that are degraded in vivo more rapidly than other fusion proteins (Page 5, line 26 to page 12, line 23), and
- e) characterizing fusion proteins expressed by the identified cells (Page 2, line 4 to page 3, line 24); and
- f) comparing which fusion proteins are characterized for each library of cells, differences in the characterized fusion proteins indicating differences in the short-lived proteins expressed by when the cells are exposed to the different agents (Page 2, line 4 to page 3, line 24 and Figure 1).

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#### Conclusion

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Arun Chakrabarti, Ph.D., whose telephone number is (703) 306-5818. The examiner can normally be reached on 7:00 AM-4:30 PM from Monday to Friday. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gary Benzion, can be reached on (703) 308-1119. The fax phone number for this Group is (703) 305-7401. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group analyst Chantae Dessaua who can be reached at (703) 605-1237.

Arun Chakrabarti,

Patent Examiner,

March 24, 2003

ARUN K. CHAKRABARTI
PATENT EXAMINER

r. Chakrabarh